MITSUBISHI ELECTRIC

Mr.SLIM

Air-Conditioners
Indoor unit

PKA-A·HA/PKA-A·HAL
PCA-A·KA

OPERATION MANUAL

FOR USER

For safe and correct use, please read this operation manual thoroughly before operating the air-conditioner unit.

English

Contents

1. Safety Precautions 2
2. Parts Names 2
3. Screen Configuration 5
4. Setting the Day of the Week and Time 5
5. Operation 5
6. Timer 7
7. Other Functions 10
8. Function Selection 11
9. Emergency Operation for Wireless Remote-controller 15
10. Care and Cleaning 15
11. Trouble Shooting 15
12. Specifications 17

1. Safety Precautions

► **Before installing the unit, make sure you read all the "Safety Precautions".**
► **The "Safety Precautions" provide very important points regarding safety. Make sure you follow them.**
► **Please report to or take consent by the supply authority before connection to the system.**

Symbols used in the text

⚠ Warning:
Describes precautions that should be observed to prevent danger of injury or death to the user.

⚠ Caution:
Describes precautions that should be observed to prevent damage to the unit.

Symbols used in the illustrations

⏚ : Indicates a part which must be grounded.

⚠ Warning:

- **The unit must not be installed by the user. Ask the dealer or an authorized company to install the unit. If the unit is installed improperly, water leakage, electric shock or fire may result.**
- **Do not stand on, or place any items on the unit.**
- **Do not splash water over the unit and do not touch the unit with wet hands. An electric shock may result.**
- **Do not spray combustible gas close to the unit. Fire may result.**
- **Do not place a gas heater or any other open-flame appliance where it will be exposed to the air discharged from the unit. Incomplete combustion may result.**
- **Do not remove the front panel or the fan guard from the outdoor unit when it is running.**
- **When you notice exceptionally abnormal noise or vibration, stop operation, turn off the power switch, and contact your dealer.**
- **Never insert fingers, sticks etc. into the intakes or outlets.**
- **If you detect odd smells, stop using the unit, turn off the power switch and consult your dealer. Otherwise, a breakdown, electric shock or fire may result.**
- **This air conditioner is NOT intended for use by children or infirm persons without supervision.**
- **Young children must be supervised to ensure that they do not play with the air conditioner.**
- **If the refrigeration gas blows out or leaks, stop the operation of the air conditioner, thoroughly ventilate the room, and contact your dealer.**

⚠ Caution:

- **Do not use any sharp object to push the buttons, as this may damage the remote controller.**
- **Never block or cover the indoor or outdoor unit's intakes or outlets.**

Disposing of the unit

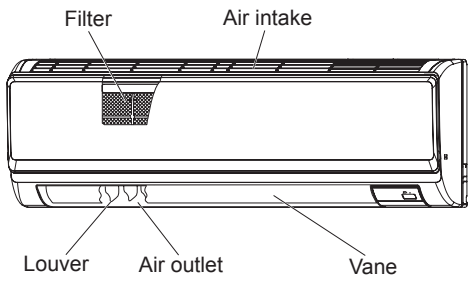
When you need to dispose of the unit, consult your dealer.

2. Parts Names

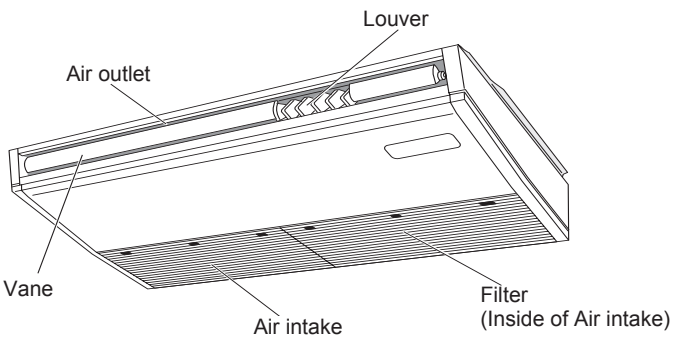
■ **Indoor Unit**

	PKA-A·HA PKA-A·HAL	PCA-A·KA
Fan speed	3 speeds + Auto	4 speeds + Auto
Vane	Auto with swing	Auto with swing
Louver	Manual	Manual
Filter	Normal	Long-life
Filter cleaning indication	100 hr	2,500 hr

■ **PKA-A·HA/PKA-A·HAL**
Wall Mounted



■ **PCA-A·KA**
Ceiling Suspended



2. Parts Names

■ **Wired Remote-Controller**

Display Section

For purposes of this explanation, all parts of the display are shown. During actual operation, only the relevant items will be displayed.

Day-of-Week
Shows the current day of the week.

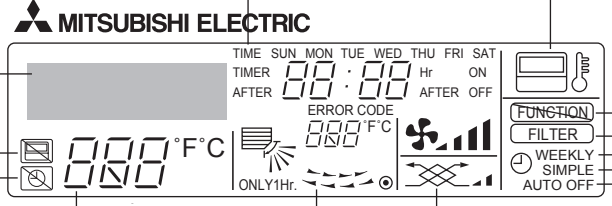
Time/Timer Display
Shows the current time, unless the simple or Auto Off timer is set.
If the simple or Auto Off timer is set, shows the time remaining.

Identifies the current operation
Shows the operating mode, etc.
* Multi language display is supported.

"Centrally Controlled" indicator
Indicates that operation of the remote controller has been prohibited by a master controller.

"Timer is Off" indicator
Indicates that the timer is off.

Temperature Setting
Shows the target temperature.



"Sensor" indication
Displayed when the remote controller sensor is used.

"Locked" indicator
Indicates that remote controller buttons have been locked.

"Clean The Filter" indicator
Comes on when it is time to clean the filter.

Timer indicators
The indicator comes on if the corresponding timer is set.

Fan Speed indicator
Shows the selected fan speed.

Ventilation indicator
Appears when the unit is running in Ventilation mode.

Up/Down Air Direction indicator
The indicator ＼ shows the direction of the outcoming airflow.

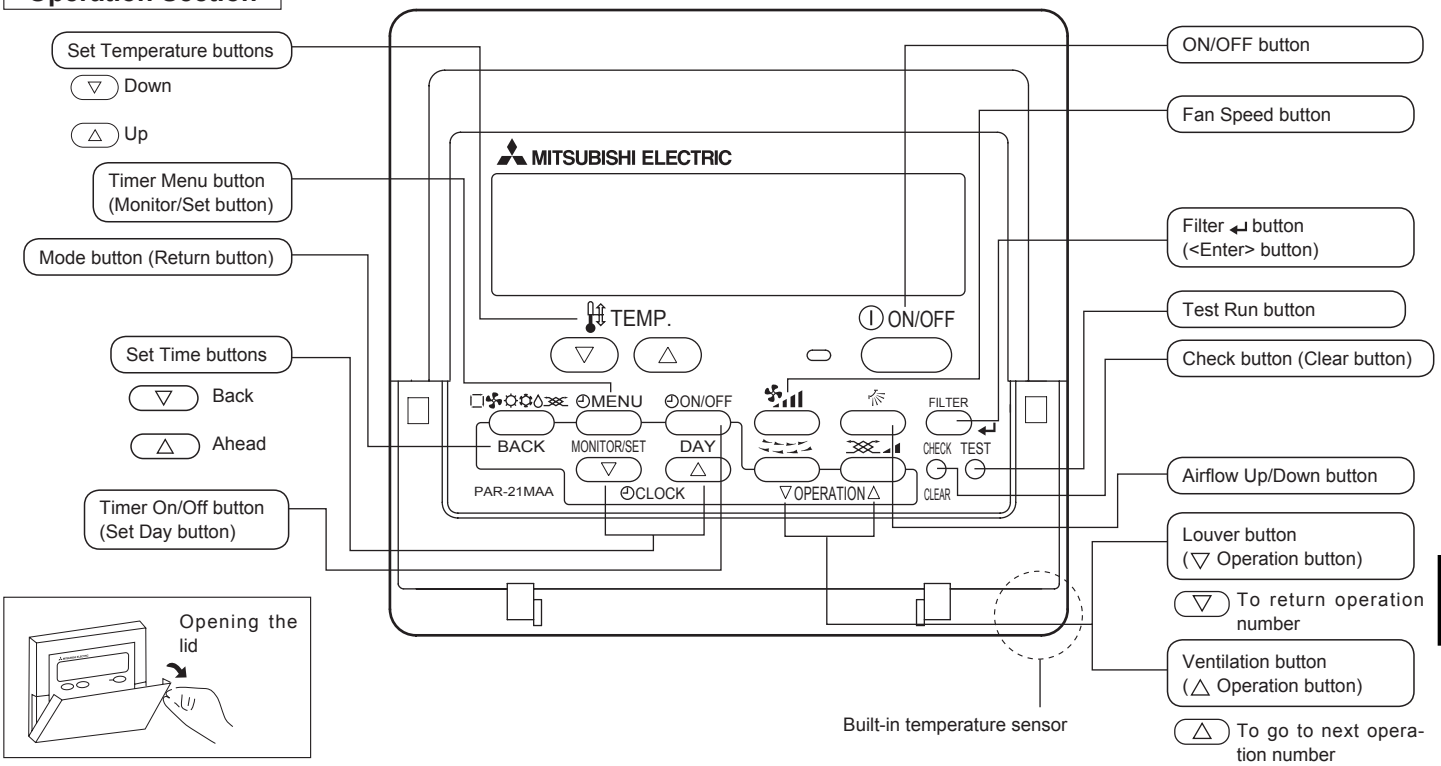
"One Hour Only" indicator
Displayed if the airflow is set to low and downward during COOL or DRY mode. (Operation varies according to model.)
The indicator goes off after 1 hour when the airflow direction also changes.

Room Temperature display
Shows the room temperature. The room temperature display range is 46-102 °F. The display blinks if the temperature is less than 46 °F or 102 °F or more.

Louver display
Indicates the action of the swing louver. Does not appear if the louver is stationary.

◉(Power On indicator)
Indicates that the power is on.

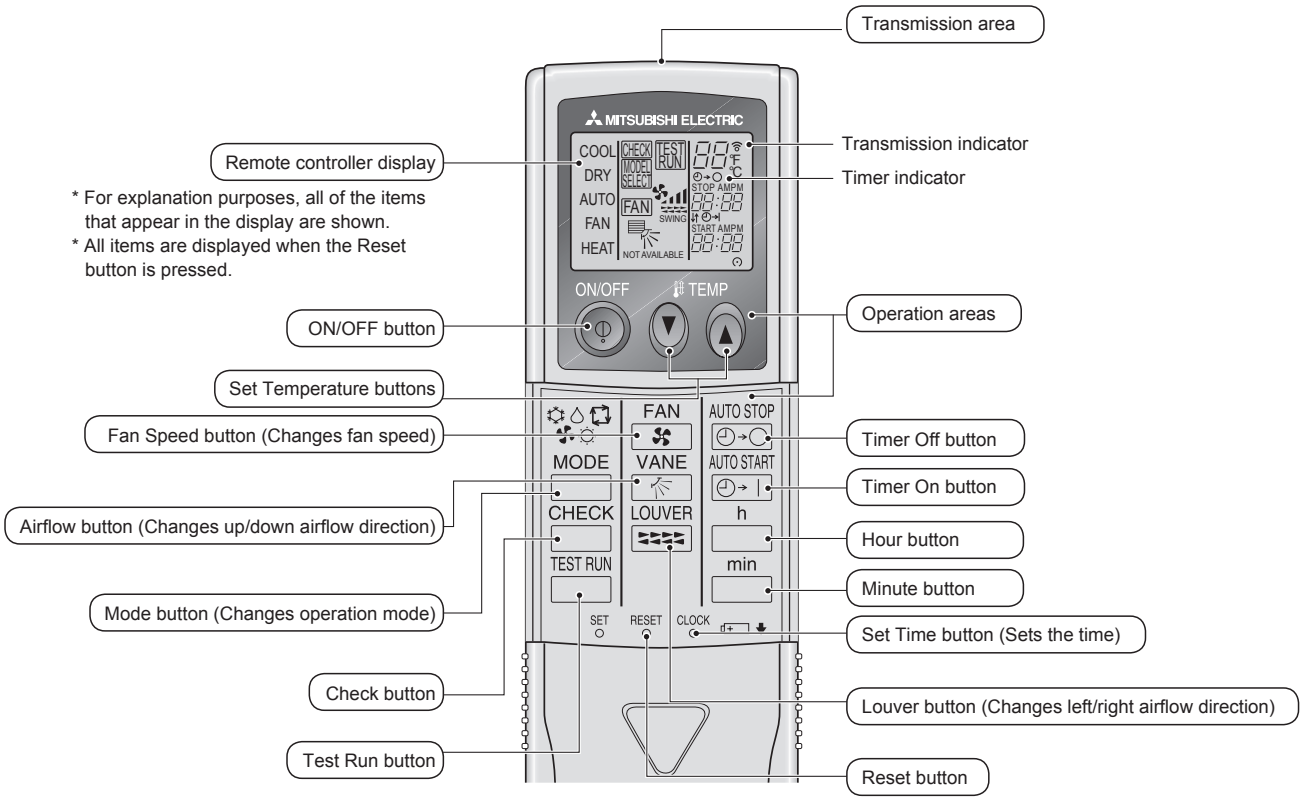
Operation Section



Note:
- "PLEASE WAIT" message
  This message is displayed for approximately 3 minutes when power is supplied to the indoor unit or when the unit is recovering from a power failure.
- "NOT AVAILABLE" message
  This message is displayed if a button is pressed to operate a function that the indoor unit does not have.
  If a single remote controller is used to simultaneously operate multiple indoor units that are different models, this message will not be displayed if any of the indoor units is equipped with the function.

2. Parts Names

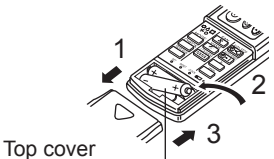
■ **Wireless Remote-Controller**



■ When using the wireless remote controller, point it towards the receiver on the indoor unit.
■ If the remote controller is operated within approximately 2 minutes after power is supplied to the indoor unit, the indoor unit may beep twice as the unit is performing the initial automatic check.
■ The indoor unit beeps to confirm that the signal transmitted from the remote controller has been received. Signals can be received up to approximately 7 meters in a direct line from the indoor unit in an area 45° to the left and right of the unit. However, illumination such as fluorescent lights and strong light can affect the ability of the indoor unit to receive signals.
■ If the operation lamp near the receiver on the indoor unit is blinking, the unit needs to be inspected. Consult your dealer for service.
■ Handle the remote controller carefully! Do not drop the remote controller or subject it to strong shocks. In addition, do not get the remote controller wet or leave it in a location with high humidity.
■ To avoid misplacing the remote controller, install the holder included with the remote controller on a wall and be sure to always place the remote controller in the holder after use.

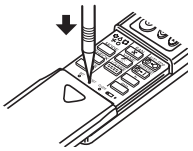
Battery installation/replacement

1. Remove the top cover, insert 2 AAA batteries, and then install the top cover.



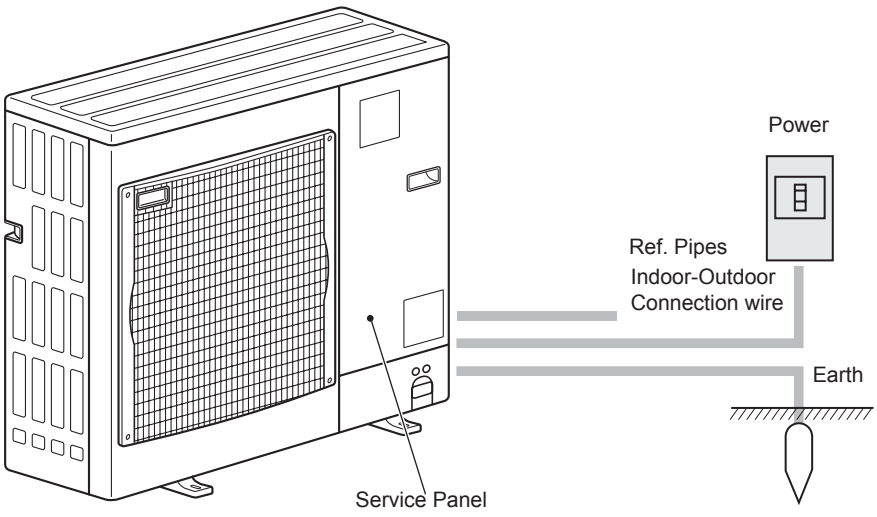
2 AAA batteries
Insert the negative (–) end of each battery first. Install the batteries in the correct directions (+, –)!

2. Press the Reset button.

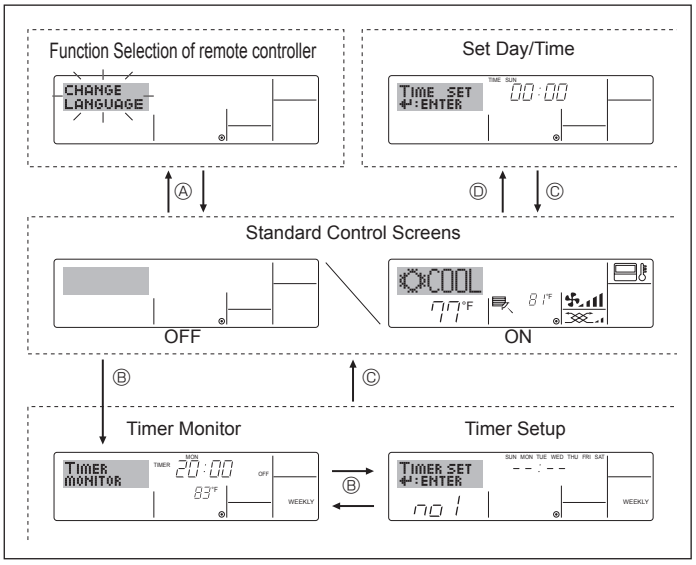


Press the Reset button with an object that has a narrow end.

■ **Outdoor unit**



3. Screen Configuration



<Screen Types>

For details on setting the language for the remote controller display, refer to section 8. Function Selection.

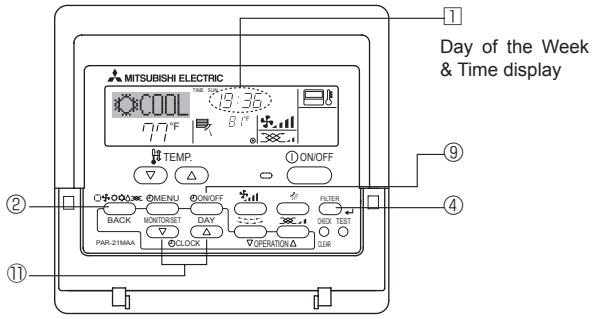
The initial language setting is English.

- Function Selection of remote controller: Set the functions and ranges available to the remote controller (timer functions, operating restrictions, etc.)
- Set Day/Time: Set the current day of the week or time.
- Standard Control Screens: View and set the air conditioning system's operating status
- Timer Monitor: View the currently set timer (weekly timer, simple timer, or Auto Off timer)
- Timer Setup: Set the operation of any of the timers (weekly timer, simple timer, or Auto Off timer).

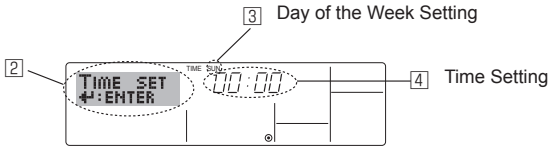
<How to change the screen>

Ⓐ : Hold down both the Mode button and the Timer On/Off button for 2 seconds.
Ⓑ : Press the Timer Menu button.
Ⓒ : Press the Mode (Return) button.
Ⓓ : Press either of the Set Time buttons (▽ or △).

4. Setting the Day of the Week and Time

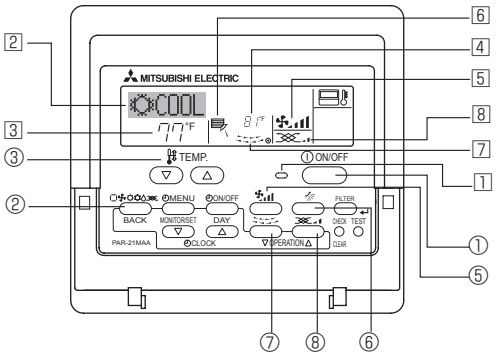


Note:
The day and time will not appear if clock use has been disabled at Function Selection of remote controller.



1. Press the ▽ or △ Set Time button ⑪ to show display 2.
2. Press the Timer On/Off (Set Day) button ⑨ to set the day.
   * Each press advances the day shown at 3: Sun → Mon → ... → Fri → Sat.
3. Press the appropriate Set Time button ⑪ as necessary to set the time.
   * As you hold the button down, the time (at 4) will increment first in minute intervals, then in 10-minute intervals, and then in 1-hour intervals.
4. After making the appropriate settings at Steps 2 and 3, press the Filter ↵ button ④ to lock in the values.

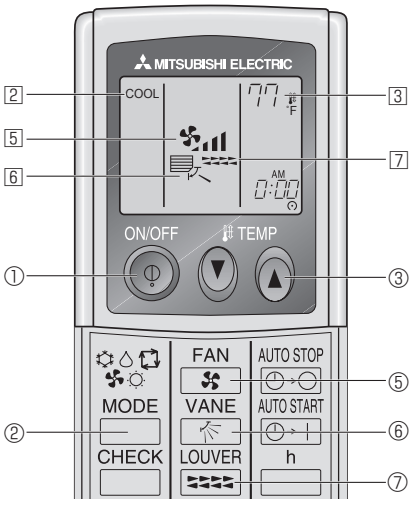
5. Operation



5.1. Turning ON/OFF

<To Start Operation>

■ Press the ON/OFF button ①.
- The ON lamp 1 and the display area come on.



<To Stop Operation>

■ Press the ON/OFF button ① again.
- The ON lamp 1 and the display area go dark.

Note:
Even if you press the ON/OFF button immediately after shutting down the operation is progress, the air conditioner will not start for about three minutes. This is to prevent the internal components from being damaged.

5.2. Mode select

■ Press the operation mode (□✣☼♢) button ② and select the operation mode [2].

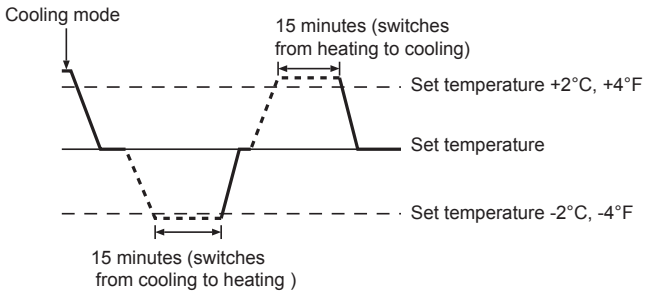
- (COOL) Cooling mode
- (DRY) Drying mode
- (FAN) Fan mode
- (HEAT) Heating mode
- (AUTO) Automatic (cooling/heating) mode
- Ventillation mode

Only indicated on the following condition
Wired remote controller used
LOSSNAY connected

Automatic operation

■ According to a set temperature, cooling operation starts if the room temperature is too hot and heating operation starts if the room temperature is too cold.

■ During automatic operation, if the room temperature changes and remains 2 °C, 4 °F or more above the set temperature for 15 minutes, the air conditioner switches to cooling mode. In the same way, if the room temperature remains 2 °C, 4 °F or more below the set temperature for 15 minutes, the air conditioner switches to heating mode.


Cooling mode
15 minutes (switches from heating to cooling)
Set temperature +2°C, +4°F
Set temperature
Set temperature -2°C, -4°F
15 minutes (switches from cooling to heating)

■ Because the room temperature is automatically adjusted in order to maintain a fixed effective temperature, cooling operation is performed a few degrees warmer and heating operation is performed a few degrees cooler than the set room temperature once the temperature is reached (automatic energy-saving operation).

5.3. Temperature setting

► **To decrease the room temperature:**
Press ▼ button ③ to set the desired temperature.
The selected temperature is displayed [3].

► **To increase the room temperature:**
Press ▲ button ③ to set the desired temperature.
The selected temperature is displayed [3].

- Available temperature ranges are as follows:
  Cooling/Drying: 19 - 30 °C, 67 - 87 °F
  Heating: 17 - 28 °C, 63 - 83 °F
  Automatic: 19 - 28 °C, 67 - 83 °F
- The display [4] flashes either 8 °C - 39 °C, 46 °F - 102 °F to inform you if the room temperature is lower or higher than the displayed temperature. (This display does not appear on the wireless remote controller.)

5.4. Fan speed setting

■ Press the Fan Speed button ⑤ as many times as necessary while the system is running.

- Each press changes the force. The currently selected speed is shown at [5].
- The change sequence, and the available settings, are as follows.

FAN SPEED	Display
4-speed + Auto	Speed 1 → Speed 2 → Speed 3 → Speed 4 → Auto
3-speed + Auto	Speed 1 → Speed 2 → Speed 3 → Auto

Note:

- **The number of available fan speeds depends on the type of unit connected. Note also that some units do not provide an "Auto" setting.**
- **In the following cases, the actual fan speed generated by the unit will differ from the speed shown the remote controller display.**
  1. **While the display is showing "STAND BY" or "DEFROST".**
  2. **When the temperature of the heat exchanger is low in the heating mode. (e.g. immediately after heating operation starts)**
  3. **In HEAT mode, when room temperature is higher than the temperature setting.**
  4. **When the unit is in DRY mode.**

5.5. Airflow direction setting

<To Change the Airflow's Up/Down Direction>

■ With the unit running, press the Airflow Up/Down button ⑥ as necessary.

- Each press changes the direction. The current direction is shown at [6].
- The change sequence, and the available settings, are as follows.

Remote controller	Display
Wired type (PCA-KA) (PKA-HA)	Swing → Auto → 1 → 2 → 3 → 4 → 5
Wireless type	Swing → 1 → 2 → 3 → 4

*Note that during swing operation, the directional indication on the screen dose not change in sync with the directional vanes on the unit.

Note:

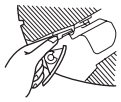
- **Available directions depend on the type of unit connected. Note also that some units do not provide an "Auto" setting.**
- **In the following cases, the actual air direction will differ from the direction indicated on the remote controller display.**
  1. **While the display is showing "STAND BY" or "DEFROST".**
  2. **Immediately after starting heater mode (while the system is waiting for the mode change to take effect).**
  3. **In heat mode, when room temperature is higher than the temperature setting.**

5. Operation

<[Manual] To Change the Airflow's Left/Right Direction>

* The louver button ⑦ cannot be used.

- Stop the unit operation, hold the lever of the louver, and adjust to the desired direction.
  - * Do not set to the inside direction when the unit is in the cooling or drying mode because there is a risk of condensation and water dripping.



⚠ **Caution:**
When you operate the process above, be sure to take measures to avoid falls.

5.6. Ventillation

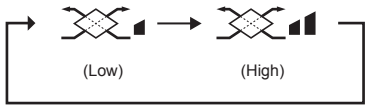
▸ **For LOSSNAY combination**

5.6.1. For Wired Remote-controller

● To run the ventilator together with the indoor unit:
  ■ Press the ON/OFF button ①.
    - The Vent indication appears on the screen (at 8). The ventilator will now automatically operate whenever the indoor unit is running.

● To run the ventilator only when the indoor unit is off:
  ■ Press the Mode button ② until appears on the display. This will cause the ventilator to start.

● To change the ventilator force:
  ■ Press the Ventilation button ⑧ as necessary.
    - Each press toggles the setting as shown below.



Note:
● **With some model configurations, the fan on the indoor unit may come on even when you set the ventilator to run independently.**

6. Timer

6.1. For Wired Remote-controller

You can use Function Selection of remote controller to select which of three types of timer to use: ① Weekly timer, ② Simple timer, or ③ Auto Off timer.

6.1.1. Weekly Timer

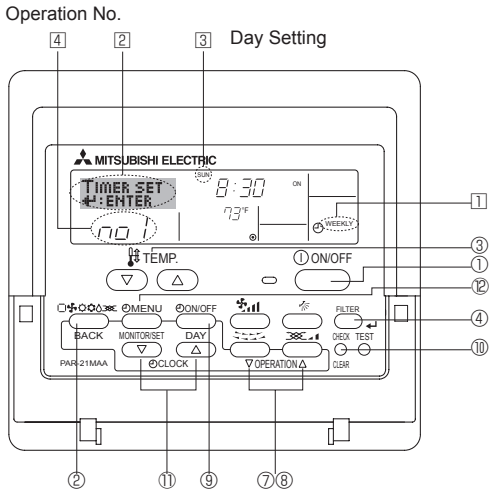
■ The weekly timer can be used to set up to eight operations for each day of the week.
  - Each operation may consist of any of the following: ON/OFF time together with a temperature setting, or ON/OFF time only, or temperature setting only.
  - When the current time reaches a time set at this timer, the air conditioner carries out the action set by the timer.

■ Time setting resolution for this timer is 1 minute.

Note:

***1. Weekly Timer/Simple Timer/Auto Off Timer cannot be used at the same time.**

***2. The weekly timer will not operate when any of the following conditions is in effect.**
The timer feature is off; the system is in an malfunction state; a test run is in progress; the remote controller is undergoing self-check or remote controller check; the user is in the process of setting a function; the user is in the process of setting the timer; the user is in the process of setting the current day of the week or time; the system is under central control. (Specifically, the system will not carry out operations (unit on, unit off, or temperature setting) that are prohibited during these conditions.)



<How to Set the Weekly Timer>

1. Be sure that you are at a standard control screen, and that the weekly timer indicator 1 is shown in the display.
2. Press the Timer Menu button ⑫, so that the "Set Up" appears on the screen (at 2). (Note that each press of the button toggles the display between "Set Up" and "Monitor".)
3. Press the Timer On/Off (Set Day) button ⑨ to set the day. Each press advances the display at 3 to the next setting, in the following sequence: "Sun Mon Tues Wed Thurs Fri Sat" → "Sun" → ... → "Fri" → "Sat" → "Sun Mon Tues Wed Thurs Fri Sat"...
4. Press the ▽ or △ Operation button (⑦ or ⑧) as necessary to select the appropriate operation number (1 to 8) 4.
   * Your inputs at Steps 3 and 4 will select one of the cells from the matrix illustrated below.
   (The remote-controller display at left shows how the display would appear when setting Operation 1 for Sunday to the values indicated below.)

Setup Matrix

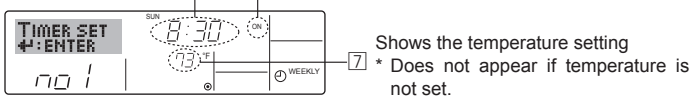
Op No.	Sunday	Monday	…	Saturday
No. 1	• 8:30 • ON • 73 °F			
No. 2	• 10:00 • OFF	• 10:00 • OFF	• 10:00 • OFF	• 10:00 • OFF
...				
No. 8				

<Operation 1 settings for Sunday>
Start the air conditioner at 8:30, with the temperature set to 73 °F.

<Operation 2 settings for every day>
Turn off the air conditioner at 10:00.

Note:
By setting the day to "Sun Mon Tues Wed Thurs Fri Sat", you can set the same operation to be carried out at the same time every day.
(Example: Operation 2 above, which is the same for all days of the week.)

<Setting the Weekly Timer>



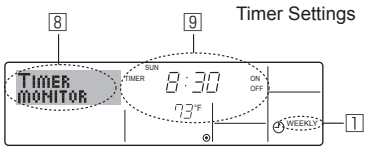
5. Press the appropriate Set Time button ⑪ as necessary to set the desired time (at 5).
   * As you hold the button down, the time first increments in minute intervals, then in 10-minute intervals, and then in 1-hour intervals.
6. Press the ON/OFF button ① to select the desired operation (ON or OFF), at 6.
   * Each press changes the next setting, in the following sequence: No display (no setting) → "ON" → "OFF"

7. Press the appropriate Set Temperature button ③ to set the desired temperature (at 7).
   * Each press changes the setting, in the following sequence: No display (no setting) ⇔ 75 ⇔ 77 ⇔ ... ⇔ 84 ⇔ 86 ⇔ 54 ⇔ ... ⇔ 73 ⇔ No display.
   (Available range: The range for the setting is 12 °C, 54 °F to 30 °C, 86 °F. The actual range over which the temperature can be controlled, however, will vary according to the type of the connected unit.)
8. After making the appropriate settings at Steps 5, 6 and 7, press the Filter ↵ button ④ to lock in the values.
   To clear the currently set values for the selected operation, press and quickly release the Check (Clear) button ⑩ once.
   * The displayed time setting will change to "—:—", and the On/Off and temperature settings will all disappear.
   (To clear all weekly timer settings at once, hold down the Check (Clear) button ⑩ for 2 seconds or more. The display will begin blinking, indicating that all settings have been cleared.)

   Note:
   Your new entries will be cancelled if you press the Mode (Return) button ② before pressing the Filter ↵ button ④.
   If you have set 2 or more different operations for exactly the same time, only the operation with the highest Operation No. will be carried out.

9. Repeat Steps 3 to 8 as necessary to fill as many of the available cells as you wish.
10. Press the mode (Return) button ② to return to the standard control screen and complete the setting procedure.
11. To activate the timer, press the Timer On/Off button ⑨, so that the "Timer Off" indication disappears from the screen. **Be sure that the "Timer Off" indication is no longer displayed.**
    * If there are no timer settings, the "Timer Off" indication will blink on the screen.

<How to View the Weekly Timer Settings>



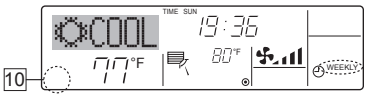
1. Be sure that the weekly timer indicator is visible on the screen (at 1).
2. Press the Timer Menu button ⑫ so that "Monitor" is indicated on the screen (at 8).
3. Press the Timer On/Off (Set Day) button ⑨ as necessary to select the day you wish to view.
4. Press the ▽ or △ Operation button (⑦ or ⑧) as necessary to change the timer operation shown on the display (at 9).
   * Each press will advance to the next timer operation, in order of time setting.
5. To close the monitor and return to the standard control screen, press the Mode (Return) button ②.

<To Turn Off the Weekly Timer>

Press the Timer On/Off button ⑨ so that "Timer Off" appears at 10.

<To Turn On the Weekly Timer>

Press the Timer On/Off button ⑨ so that the "Timer Off" indication (at 10) goes dark.



6.1.2. Simple Timer

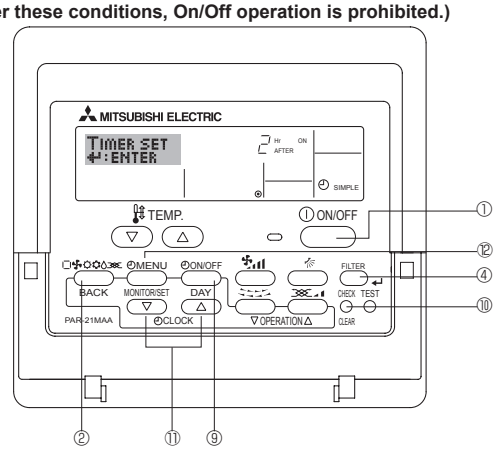
■ You can set the simple timer in any of three ways.
- Start time only:
  The air conditioner starts when the set time has elapsed.
- Stop time only:
  The air conditioner stops when the set time has elapsed.
- Start & stop times:
  The air conditioner starts and stops at the respective elapsed times.

■ The simple timer (start and stop) can be set only once within a 72-hour period.
The time setting is made in hour increments.

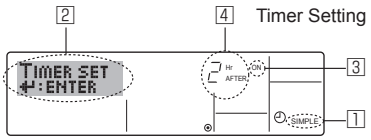
Note:

***1. Weekly Timer/Simple Timer/Auto Off Timer cannot be used at the same time.**

***2. The simple timer will not operate when any of the following conditions is in effect.**
The timer is off; the system is in malfunction state; a test run is in progress; the remote controller is undergoing self-check or remote controller check; the user is in the process of selecting a function; the user is in the process of setting the timer; the system is under central control. (Under these conditions, On/Off operation is prohibited.)



<How to Set the Simple Timer>



1. Be sure that you are at a standard control screen, and that the simple timer indicator is visible in the display (at 1).
   When something other than the Simple Timer is displayed, set it to SIMPLE TIMER using the function selection of remote controller (see 8.[4]–3 (3)) timer function setting.
2. Press the Timer Menu button ⑫, so that the "Set Up" appears on the screen (at 2). (Note that each press of the button toggles the display between "Set Up" and "Monitor".)
3. Press the ON/OFF button ① to display the current ON or OFF simple timer setting. Press the button once to display the time remaining to ON, and then again to display the time remaining to OFF. (The ON/OFF indication appears at 3).
   - "ON" timer:
     The air conditioner will start operation when the specified number of hours has elapsed.
   - "OFF" timer:
     The air conditioner will stop operation when the specified number of hours has elapsed.
4. With "ON" or "OFF" showing at 3: Press the appropriate Set Time button ⑪ as necessary to set the hours to ON (if "ON" is displayed) or the hours to OFF (if "OFF" is displayed) at 4.
   - Available Range: 1 to 72 hours
5. To set both the ON and OFF times, repeat Steps 3 and 4.
   * Note that ON and OFF times cannot be set to the same value.
6. To clear the current ON or OFF setting: Display the ON or OFF setting (see step 3) and then press the Check (Clear) button ⑩ so that the time setting clears to "—" at 4. (If you want to use only an ON setting or only an OFF setting, be sure that the setting you do not wish to use is shown as "—".)

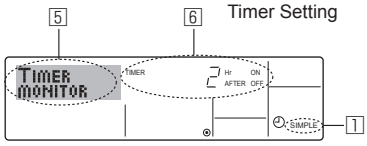
7. After completing steps 3 to 6 above, press the Filter ↵ button ④ to lock in the value.

Note:

Your new settings will be cancelled if you press the Mode (Return) button ② before pressing the Filter↵ button ④.

8. Press the Mode (Return) button ② to return to the standard control screen.
9. Press the Timer On/Off button ⑨ to start the timer countdown. When the timer is running, the timer value is visible on the display. **Be sure that the timer value is visible and appropriate.**

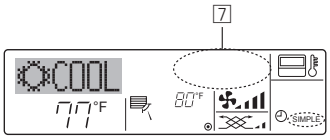
<Viewing the Current Simple Timer Settings>



1. Be sure that the simple timer indicator is visible on the screen (at 1).
2. Press the Timer Menu button ⑫, so that the "Monitor" appears on the screen (at 5).
   - If the ON or OFF simple timer is running, the current timer value will appear at 6.
   - If ON and OFF values have both been set, the 2 values appear alternately.
3. Press the Mode (Return) button ② to close the monitor display and return to the standard control screen.

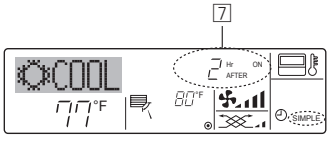
<To Turn Off the Simple Timer...>

Press the Timer On/Off button ⑨ so that the timer setting no longer appears on the screen (at 7).



<To Turn On the Simple Timer...>

Press the Timer On/Off button ⑨ so that the timer setting becomes visible at 7.



Examples

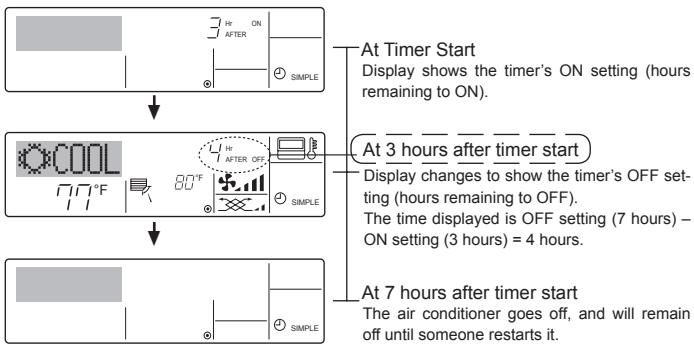
If ON and OFF times have both been set at the simple timer, operation and display are as indicated below.

Example 1:

Start the timer, with ON time set sooner than OFF time

ON Setting: 3 hours

OFF Setting: 7 hours

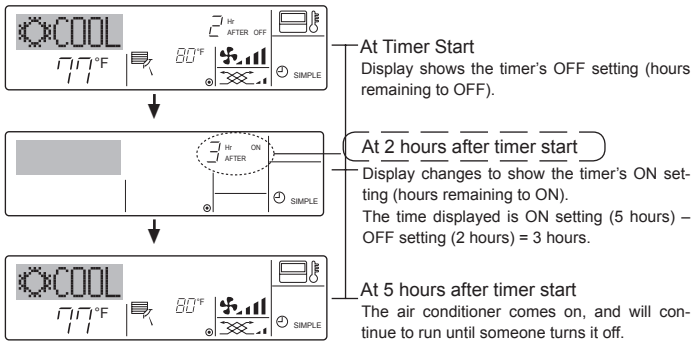

Hr ON AFTER
SIMPLE
COOL
Hr AFTER OFF
80°F
At Timer Start
Display shows the timer's ON setting (hours remaining to ON).
At 3 hours after timer start
Display changes to show the timer's OFF setting (hours remaining to OFF).
The time displayed is OFF setting (7 hours) – ON setting (3 hours) = 4 hours.
At 7 hours after timer start
The air conditioner goes off, and will remain off until someone restarts it.

Example 2:

Start the timer, with OFF time is sooner than ON time

ON Setting: 5 hours

OFF Setting: 2 hours


COOL
Hr AFTER OFF
80°F
SIMPLE
Hr ON AFTER
At Timer Start
Display shows the timer's OFF setting (hours remaining to OFF).
At 2 hours after timer start
Display changes to show the timer's ON setting (hours remaining to ON).
The time displayed is ON setting (5 hours) – OFF setting (2 hours) = 3 hours.
At 5 hours after timer start
The air conditioner comes on, and will continue to run until someone turns it off.

6.1.3. Auto Off Timer

■ This timer begins countdown when the air conditioner starts, and shuts the air conditioner off when the set time has elapsed.

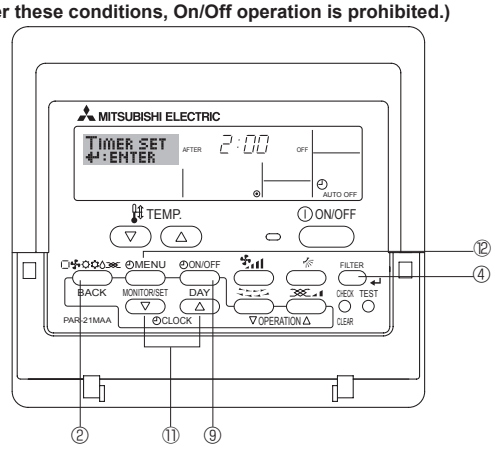
■ Available settings run from 30 minutes to 4 hours, in 30-minute intervals.

Note:

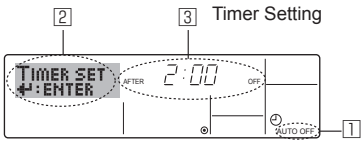
***1. Weekly Timer/Simple Timer/Auto Off Timer cannot be used at the same time.**

***2. The Auto Off timer will not operate when any of the following conditions is in effect.**

The timer is off; the system is in malfunction state; a test run is in progress; the remote controller is undergoing self-check or remote controller check; the user is in the process of selecting a function; the user is in the process of setting the timer; the system is under central control. (Under these conditions, On/Off operation is prohibited.)



<How to Set the Auto Off Timer>



1. Be sure that you are at a standard control screen, and that the Auto Off timer indicator is visible in the display (at 1).
   When something other than the Auto Off Timer is displayed, set it to AUTO OFF TIMER using the function selection of remote controller (see 8.[4]–3 (3)) timer function setting.
2. Hold down the Timer Menu button ⑫ for **3 seconds**, so that the "Set Up" appears on the screen (at 2).
   (Note that each press of the button toggles the display between "Set Up" and "Monitor".)
3. Press the appropriate Set Time button ⑪ as necessary to set the OFF time (at 3).
4. Press the Filter ↵ button ④ to lock in the setting.

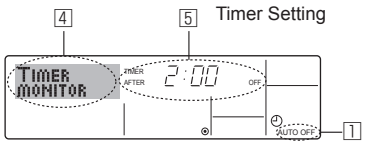
Note:

Your entry will be cancelled if you press the Mode (Return) button ② before pressing the Filter ↵ button ④.

5. Press the Mode (Return) button ② to complete the setting procedure and return to the standard control screen.
6. If the air conditioner is already running, the timer starts countdown immediately. **Be sure to check that the timer setting appears correctly on the display.**

6. Timer

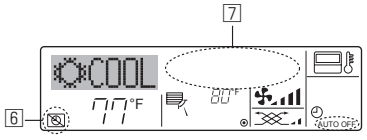
<Checking the Current Auto Off Timer Setting>



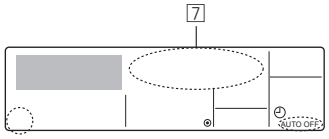
1. Be sure that the “Auto Off” is visible on the screen (at 1).
2. Hold down the Timer Menu button ⑫ for **3 seconds**, so that “Monitor” is indicated on the screen (at 4).
   • The timer remaining to shutdown appears at 5.
3. To close the monitor and return to the standard control screen, press the Mode (Return) button ②.

<To Turn Off the Auto Off Timer...>

● Hold down the Timer On/Off button ⑨ for **3 seconds**, so that “Timer Off” appears (at 6) and the timer value (at 7) disappears.



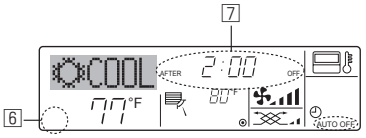
● Alternatively, turn off the air conditioner itself. The timer value (at 7) will disappear from the screen.



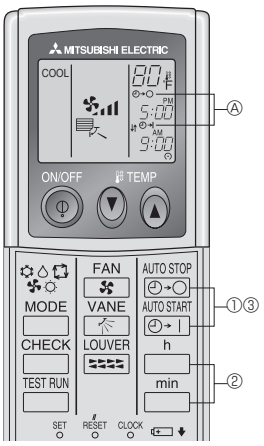
<To Turn On the Auto Off Timer...>

● Hold down the Timer On/Off button ⑨ for **3 seconds**. The “Timer Off” indication disappears (at 6), and the timer setting comes on the display (at 7).

● Alternatively, turn on the air conditioner. The timer value will appear at 7.



6.2. For wireless remote controller



① Press the AUTO STOP or AUTO START button (TIMER SET).

• Time can be set while the following symbol is blinking.
  OFF timer: A ◴→◯ is blinking.
  ON timer: A ◴→| is blinking.

② Use the h and min buttons to set the desired time.

③ Cancelling the timer.
  To cancel the OFF timer, press the AUTO STOP button.
  To cancel the ON timer, press the AUTO START button.

• It is possible to combine both OFF and ON timers.
• Pressing the ① ON/OFF button of the remote controller during timer mode to stop the unit will cancel the timers.
• If the current time has not been set, the timer operation cannot be used.

7. Other Functions

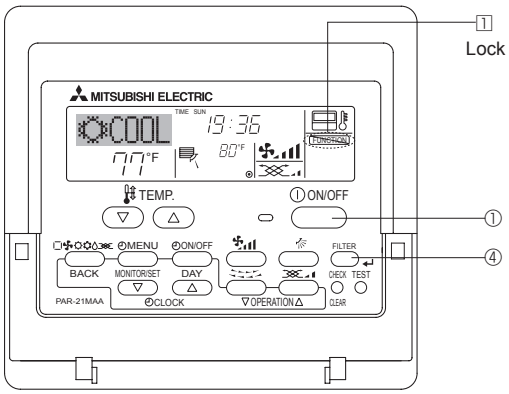
7.1. Locking the Remote Controller Buttons (Operation function limit controller)

■ If you wish, you can lock the remote controller buttons. You can use the Function Selection of remote controller to select which type of lock to use. (For information about selecting the lock type, see section 8, item [4]–2 (1)).
Specifically, you can use either of the following 2 lock types.

① Lock All Buttons:
Locks all of the buttons on the remote controller.

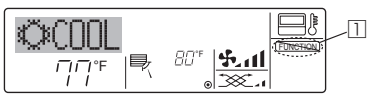
② Lock All Except ON/OFF:
Locks all buttons other than the ON/OFF button.

Note:
The “Locked” indicator appears on the screen to indicate that buttons are currently locked.

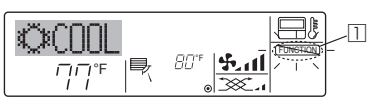


<How to Lock the Buttons>

1. While holding down the Filter button ④, press and hold down the ON/OFF button ① for 2 seconds. The “Locked” indication appears on the screen (at 1), indicating that the lock is now engaged.
   * If locking has been disabled in Function Selection of remote controller, the screen will display the “Not Available” message when you press the buttons as described above.

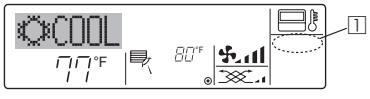


   • If you press a locked button, the “Locked” indication (at 1) will blink on the display.



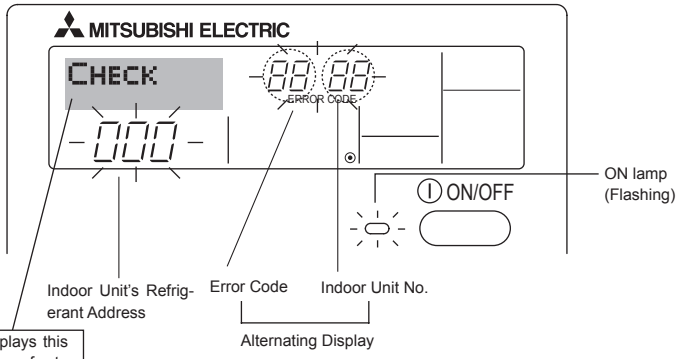
<How to Unlock the Buttons>

1. While holding down the Filter button ④, press and hold down the ON/OFF button ① for 2 seconds—so that the “Locked” indication disappears from the screen (at 1).



7. Other Functions

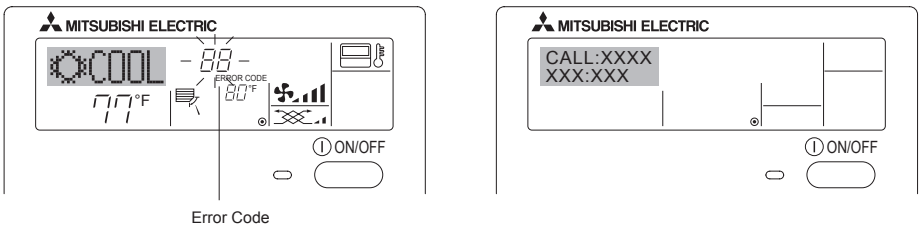
7.2. Error Codes indication



If you have entered contact number to be called in the event of a problem, the screen displays this number. (You can set this up under Function Selection of remote controller. For information, refer to section 8.)

● If the ON lamp and error code are both blinking: This means that the air conditioner is out of order and operation has been stopped (and cannot resume). Take note of the indicated unit number and error code, then switch off the power to the air conditioner and call your dealer or servicer.

When the Check button is pressed:



● If only the error code is blinking (while the ON lamp remains lit): Operation is continuing, but there may be a problem with the system. In this case, you should note down the error code and then call your dealer or servicer for advice.

* If you have entered contact number to be called in the event of a problem, push the Check button to display it on the screen. (You can set this up under Function Selection of remote controller. For information, refer to section 8.)

8. Function Selection

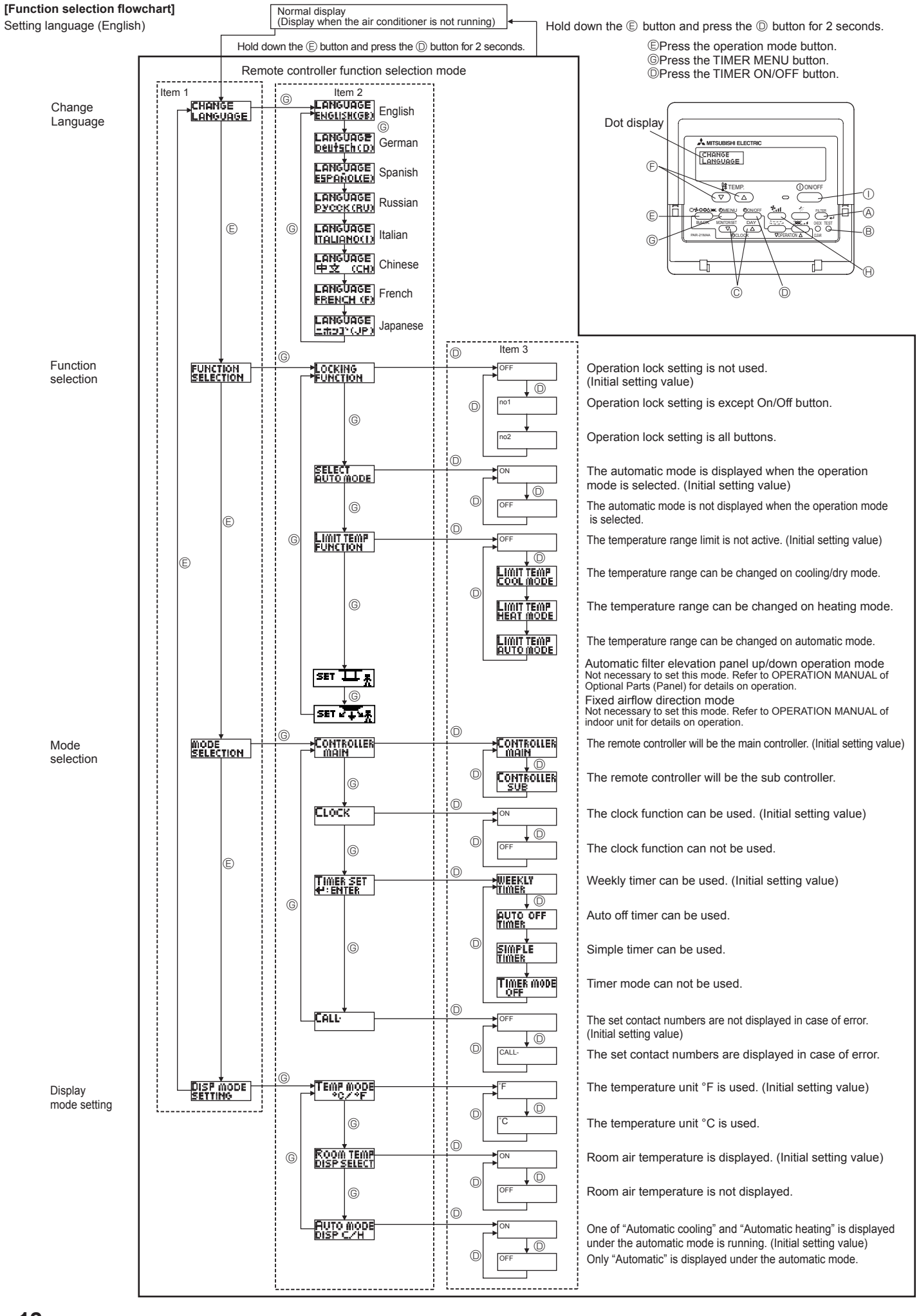
Function selection of remote controller

The setting of the following remote controller functions can be changed using the remote controller function selection mode. Change the setting when needed.

Item 1	Item 2	Item 3 (Setting content)
1. Change Language (“CHANGE LANGUAGE”)	Language setting to display	• Display in multiple languages is possible
2. Function limit (“FUNCTION SELECTION”)	(1) Operation function limit setting (operation lock) (“LOCKING FUNCTION”)	• Setting the range of operation limit (operation lock)
	(2) Use of automatic mode setting (“SELECT AUTO MODE”)	• Setting the use or non-use of “automatic” operation mode
	(3) Temperature range limit setting (“LIMIT TEMP FUNCTION”)	• Setting the temperature adjustable range (maximum, minimum)
3. Mode selection (“MODE SELECTION”)	(1) Remote controller main/sub setting (“CONTROLLER MAIN/SUB”)	• Selecting main or sub remote controller * When 2 remote controllers are connected to one group, one controller must be set to sub.
	(2) Use of clock setting (“CLOCK”)	• Setting the use or non-use of clock function
	(3) Timer function setting (“WEEKLY TIMER”)	• Setting the timer type
	(4) Contact number setting for error situation (“CALL.”)	• Contact number display in case of error • Setting the telephone number
4. Display change (“DISP MODE SETTING”)	(1) Temperature display °C/°F setting (“TEMP MODE °C/°F”)	• Setting the temperature unit (°C or °F) to display
	(2) Suction air temperature display setting (“ROOM TEMP DISP SELECT”)	• Setting the use or non-use of the display of indoor (suction) air temperature
	(3) Automatic cooling/heating display setting (“AUTO MODE DISP C/H”)	• Setting the use or non-use of the display of “Cooling” or “Heating” display during operation with automatic mode

8. Function Selection

[Function selection flowchart]
Setting language (English)


Normal display
(Display when the air conditioner is not running)
Hold down the Ⓔ button and press the Ⓓ button for 2 seconds.
Hold down the Ⓔ button and press the Ⓓ button for 2 seconds.
Ⓔ Press the operation mode button.
Ⓖ Press the TIMER MENU button.
Ⓓ Press the TIMER ON/OFF button.
Remote controller function selection mode
Item 1
Item 2
Item 3
Change Language
Function selection
Mode selection
Display mode setting
CHANGE LANGUAGE
LANGUAGE ENGLISH(GB)
English
LANGUAGE Deutsch(D)
German
LANGUAGE ESPAÑOL(E)
Spanish
LANGUAGE РУССК(RU)
Russian
LANGUAGE ITALIANO(I)
Italian
LANGUAGE 中文 (CH)
Chinese
LANGUAGE FRENCH (F)
French
LANGUAGE ニホンゴ(JP)
Japanese
FUNCTION SELECTION
LOCKING FUNCTION
OFF
no1
no2
SELECT AUTO MODE
ON
OFF
LIMIT TEMP FUNCTION
OFF
LIMIT TEMP COOL MODE
LIMIT TEMP HEAT MODE
LIMIT TEMP AUTO MODE
SET
SET
MODE SELECTION
CONTROLLER MAIN
CONTROLLER MAIN
CONTROLLER SUB
CLOCK
ON
OFF
TIMER SET ↵:ENTER
WEEKLY TIMER
AUTO OFF TIMER
SIMPLE TIMER
TIMER MODE OFF
CALL
OFF
CALL
DISP MODE SETTING
TEMP MODE °C/°F
°F
°C
ROOM TEMP DISP SELECT
ON
OFF
AUTO MODE DISP C/H
ON
OFF
Dot display
MITSUBISHI ELECTRIC
CHANGE LANGUAGE
TEMP.
ON/OFF
MENU
ON/OFF
FILTER
BACK
MONITOR/SET
DAY
SKED
TEST
CLOCK
OPERATION
CLR
Operation lock setting is not used. (Initial setting value)
Operation lock setting is except On/Off button.
Operation lock setting is all buttons.
The automatic mode is displayed when the operation mode is selected. (Initial setting value)
The automatic mode is not displayed when the operation mode is selected.
The temperature range limit is not active. (Initial setting value)
The temperature range can be changed on cooling/dry mode.
The temperature range can be changed on heating mode.
The temperature range can be changed on automatic mode.
Automatic filter elevation panel up/down operation mode
Not necessary to set this mode. Refer to OPERATION MANUAL of Optional Parts (Panel) for details on operation.
Fixed airflow direction mode
Not necessary to set this mode. Refer to OPERATION MANUAL of indoor unit for details on operation.
The remote controller will be the main controller. (Initial setting value)
The remote controller will be the sub controller.
The clock function can be used. (Initial setting value)
The clock function can not be used.
Weekly timer can be used. (Initial setting value)
Auto off timer can be used.
Simple timer can be used.
Timer mode can not be used.
The set contact numbers are not displayed in case of error. (Initial setting value)
The set contact numbers are displayed in case of error.
The temperature unit °F is used. (Initial setting value)
The temperature unit °C is used.
Room air temperature is displayed. (Initial setting value)
Room air temperature is not displayed.
One of “Automatic cooling” and “Automatic heating” is displayed under the automatic mode is running. (Initial setting value)
Only “Automatic” is displayed under the automatic mode.

8. Function Selection

[Detailed setting]

[4]–1. CHANGE LANGUAGE setting

The language that appears on the dot display can be selected.

- Press the [◴ MENU] button Ⓖ to change the language.
  ① English (GB), ② German (D), ③ Spanish (E), ④ Russian (RU), ⑤ Italian (I), ⑥ Chinese (CH), ⑦ French (F), ⑧ Japanese (JP)

Refer to the dot display table.

[4]–2. Function limit

(1) Operation function limit setting (operation lock)

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① no1 : Operation lock setting is made on all buttons other than the [⏻ ON/OFF] button ⓘ.
  ② no2 : Operation lock setting is made on all buttons.
  ③ OFF (Initial setting value): Operation lock setting is not made.

* To make the operation lock setting valid on the normal screen, it is necessary to press buttons (Press and hold down the [FILTER] Ⓐ and [⏻ ON/OFF] ⓘ buttons at the same time for 2 seconds.) on the normal screen after the above setting is made.

(2) Use of automatic mode setting

When the remote controller is connected to the unit that has automatic operation mode, the following settings can be made.

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① ON (Initial setting value):
  The automatic mode is displayed when the operation mode is selected.
  ② OFF:
  The automatic mode is not displayed when the operation mode is selected.

(3) Temperature range limit setting

After this setting is made, the temperature can be changed within the set range.

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① LIMIT TEMP COOL MODE:
  The temperature range can be changed on cooling/dry mode.
  ② LIMIT TEMP HEAT MODE:
  The temperature range can be changed on heating mode.
  ③ LIMIT TEMP AUTO MODE:
  The temperature range can be changed on automatic mode.
  ④ OFF (initial setting): The temperature range limit is not active.

* When the setting, other than OFF, is made, the temperature range limit setting on cooling, heating and automatic mode is made at the same time. However, the range cannot be limited when the set temperature range has not changed.

- To increase or decrease the temperature, press the [🌡 TEMP. (▽) or (△)] button Ⓕ.
- To switch the upper limit setting and the lower limit setting, press the [💨 button Ⓗ. The selected setting will flash and the temperature can be set.
- Set table range

  Cooling/Dry mode:
  Lower limit: 19°C ~ 30°C, 67°F ~ 87°F
  Upper limit: 30°C ~ 19°C, 87°F ~ 67°F
  Heating mode:
  Lower limit: 17°C ~ 28°C, 63°F ~ 83°F
  Upper limit: 28°C ~ 17°C, 83°F ~ 63°F
  Automatic mode:
  Lower limit: 19°C ~ 28°C, 67°F ~ 83°F
  Upper limit: 28°C ~ 19°C, 83°F ~ 67°F

[4]–3. Mode selection setting

(1) Remote controller main/sub setting

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① Main: The controller will be the main controller.
  ② Sub: The controller will be the sub controller.

(2) Use of clock setting

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① ON: The clock function can be used.
  ② OFF: The clock function cannot be used.

(3) Timer function setting

- To switch the setting, press the [◴ ON/OFF] button Ⓓ (Choose one of the followings.).
  ① WEEKLY TIMER (initial setting value):
  The weekly timer can be used.
  ② AUTO OFF TIMER:
  The auto off timer can be used.
  ③ SIMPLE TIMER:
  The simple timer can be used.
  ④ TIMER MODE OFF:
  The timer mode cannot be used.

* When the use of clock setting is OFF, the “WEEKLY TIMER” cannot be used.

(4) Contact number setting for error situation

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① CALL OFF:
  The set contact numbers are not displayed in case of error.
  ② CALL **** *** ****:
  The set contact numbers are displayed in case of error.
  CALL_:
  The contact number can be set when the display is as shown on the left.
- Setting the contact numbers
  To set the contact numbers, follow the following procedures.
  Move the blinking cursor to set numbers. Press the [🌡 TEMP. (▽) and (△)] button Ⓕ to move the cursor to the right (left). Press the [◴ CLOCK (▽) and (△)] button Ⓒ to set the numbers.

[4]–4. Display change setting

(1) Temperature display °C/°F setting

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① °C: The temperature unit °C is used.
  ② °F: The temperature unit °F is used.

(2) Suction air temperature display setting

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① ON: The suction air temperature is displayed.
  ② OFF: The suction air temperature is not displayed.

(3) Automatic cooling/heating display setting

- To switch the setting, press the [◴ ON/OFF] button Ⓓ.
  ① ON:
  One of “Automatic cooling” and “Automatic heating” is displayed under the automatic mode is running.
  ② OFF:
  Only “Automatic” is displayed under the automatic mode.

8. Function Selection

[Dot display table]

Selecting language		English	German	Spanish	Russian	Italian	Chinese	French	Japanese
Waiting for start-up		PLEASE WAIT	←	←	←	←	←	←	←
Operation mode	Cool	COOL	Kühlen	FRÍO	Холод	COOL	制冷	FROID	冷房
	Dry	DRY	Trocknen	DESHUMI-DIFICACION	Сушка	DRY	除湿	DESHU	ドライ
	Heat	HEAT	Heizen	CALOR	Тепло	HEAT	制热	CHAUD	暖房
	Auto	AUTO	AUTO	AUTO-MÁTICO	Авто	AUTO	自动	AUTO	自動
	Auto (Cool)	COOL	Kühlen	FRÍO	Холод	COOL	制冷	FROID	冷房
	Auto (Heat)	HEAT	Heizen	CALOR	Тепло	HEAT	制热	CHAUD	暖房
	Fan	FAN	Lüfter	VENTI-LACIÓN	Вент	VENTI LAZIONE	送风	VENTI LATION	送風
	Ventilation	VENTI LATION	Gebläse betrieb	VENTI-LACIÓN	Вентиляция	ARIA ESTERNA	换气	VENTI LATION	換気
	Stand by (Hot adjust)	STAND BY	STAND BY	CALENTANDO	Обогрев: пауза	STAND BY	准备中	PRE CHAUFFAGE	準備中
	Defrost	DEFROST	Abtauen	DESCONGE-LACIÓN	Оттаивание	SBRINA MENTO	除霜中	DEGIVRAGE	霜取中
Set temperature		SET TEMP	TEMP einstellen	TEMP. CONSIGNA	Целевая температура	IMPOSTAZIONE TEMPERTURA	设定温度	REGLAGE TEMPERATURE	設定温度
Fan speed		FAN SPEED	Lüftergesch windigkeit	VELOCIDAD VENTILADOR	Скорость вентилятора	VELOCITA' VENTILATORE	风速	VITESSE DE VENTILATION	風速
Not use button		NOT AVAILABLE	nicht Verfügbar	NO DISPONIBLE	Не доступно	NON DISPONIBILE	无效按钮	NON DISPONIBLE	無効ボタン
Check (Error)		CHECK	Prüfen	COMPROBAR	Проверка	CHECK	检查	CONTROLE	点検
Test run		TEST RUN	Testbetrieb	TEST FUNCIO NAMIENTO	Тестовый запуск	TEST RUN	试运转	TEST	試ウンテン
Self check		SELF CHECK	Selbst-diagnose	AUTO REVISIÓN	Самодиагностика	SELF CHECK	自我诊断	AUTO CONTROLE	自己ジンダン
Unit function selection		FUNCTION SELECTION	Funktion sauswahl	SELECCIÓN DE FUNCIÓN	Выбор функции	SELEZIONE FUNZIONI	功能选择	SELECTION FONCTIONS	キノウ選択
Setting of ventilation		SETTING OF VENTILATION	Lüfterstufen wählen	CONFIG. VENTILACIÓN	Настройка вентустан.	IMPOSTAZIONE ARIA ESTERNA	换气设定	SELECTION VENTILATION	換気設定

Selecting language	English	German	Spanish	Russian	Italian	Chinese	French	Japanese
CHANGE LANGUAGE	CHANGE LANGUAGE	←	←	←	←	←	←	←
Function selection	FUNCTION SELECTION	Funktion auswahlen	SELECCIÓN DE FUNCIONES	Выбор функции	SELEZIONE FUNZIONI	功能限制	SELECTION FONCTIONS	キノウ制限
Operation function limit setting	LOCKING FUNCTION	Sperr – Funktion	FUNCIÓN BLOQUEADA	Функция блокировки	BLOCCO FUNZIONI	操作限制	BLOCAGE FONCTIONS	操作ｾｲｹﾞﾝﾓｰﾄﾞ
Use of automatic mode setting	SELECT AUTO MODE	Auswahl Auto Betrieb	SELECCIÓN MODO AUTO	Выбор режима авто	SELEZIONE MODO AUTO	自动模式	SELECTION DU MODE AUTO	自動ﾓｰﾄﾞｼｮｳ
Temperature range limit setting	LIMIT TEMP FUNCTION	Limit temp Funktion	LÍMIT TEMP CONSIGNA	Ограничение уст.температ	LIMITAZIONE TEMPERATURA	温度限制	LIMITATION TEMPERATURE	温度制限
Limit temperature cooling/day mode	LIMIT TEMP COOL MODE	Limit Kühl temp	LÍMIT TEMP MODO FRIO	Ограничено охлаждение	LIMITAZIONE MODO COOL	制冷范围	LIMITE TEMP MODE FROID	ｵﾝﾄﾞﾊﾝｲﾝ冷房
Limit temperature heating mode	LIMIT TEMP HEAT MODE	Limit Heiz temp	LÍMIT TEMP MODO CALOR	Ограничен обогрев	LIMITAZIONE MODO HEAT	制热范围	LIMITE TEMP MODE CHAUD	ｵﾝﾄﾞﾊﾝｲﾝ暖房
Limit temperature auto mode	LIMIT TEMP AUTO MODE	Limit AUTO temp	LÍMIT TEMP MODO AUTO	Ограничен режим авто	LIMITAZIONE MODO AUTO	自动范围	LIMITE TEMP MODE AUTO	ｵﾝﾄﾞﾊﾝｲﾝ自動
Mode selection	MODE SELECTION	Betriebsart wählen	SELECCIÓN DE MODO	Выбор режима	SELEZIONE MODO	基本模式	SELECTION DU MODE	基本キノウ
Remote controller setting MAIN	CONTROLLER MAIN	Haupt Controller	CONTROL PRINCIPAL	Основной пульт	CONTROLLO MAIN	遥控 主	TELKOMMANDE MAITRE	ﾘﾓｺﾝ主従
Remote controller setting SUB	CONTROLLER SUB	Neben Controller	CONTROL SECUNDARIO	Дополнительный пульт	CONTROLLO SUB	遥控 辅	TELKOMMANDE ESCLAVE	ﾘﾓｺﾝ主従
Use of clock setting	CLOCK	Uhr	RELOJ	Часы	OROLOGIO	时钟	AFFICHAGE HORLOGE	時計ｼｮｳ
Setting the day of the week and time	TIME SET ↵:ENTER	Uhr stellen ↵:einstellen	CONFIG RELOJ ↵:CONFIG	Часы: уст. ↵:ввод	OROLOGIO ↵:ENTER	时间 ↵:ENTER	HORLOGE ↵:ENTRER	ﾄｹｲｾｯﾃｲ ↵:ｶｸﾃｲ
Timer set	TIMER SET ↵:ENTER	Zeitschaltuhr ↵:einstellen	TEMPORIZA - DOR ↵:CONFIG	Таймер:уст. ↵:ввод	TIMER ↵:ENTER	定时器 ↵:ENTER	PROG HORAIRE ↵:ENTRER	ﾀｲﾏｰｾｯﾃｲ ↵:ｶｸﾃｲ
Timer monitor	TIMER MONITOR	Uhrzeit Anzeige	VISUALIZAR TEMPORIZAD.	Просмотр таймера	VISUALIZ TIMER	定时器状态	AFFICHAGE PROG HORAIRE	ﾀｲﾏｰﾓﾆﾀｰ
Weekly timer	WEEKLY TIMER	Wochenzeit schalt Uhr	TEMPORIZA - DOR SEMANAL	Недельный таймер	TIMER SETTIMANALE	每周定时器	PROG HEBDO MADAIRE	ﾀｲﾏｰ週間
Timer mode off	TIMER MODE OFF	Zeitschaltuhr AUS	TEMPORIZA - DOR APAGADO	Таймер выкл.	TIMER OFF	定时器无效	PROG HORAIRE INACTIF	ﾀｲﾏｰ無効
Auto off timer	AUTO OFF TIMER	Auto Zeit funktion AUS	APAGADO AUTOMÁTICO	Автоотключ. по таймеру	AUTO OFF TIMER	解除定时	PROG HORAIRE ARRET AUTO	ﾀｲﾏｰｹｲｼｮﾙﾃｲｼ ﾎｳｼ
Simple timer	SIMPLE TIMER	Einfache Zeitfunktion	TEMPORIZA - DOR SIMPLE	Простой таймер	TIMER SEMPLIFICATO	简易定时器	PROG HORAIRE SIMPLIFIE	ﾀｲﾏｰｶﾝｲ
Contact number setting of error situation	CALL·	←	←	←	←	←	←	←
Display change	DISP MODE SETTING	Anzeige Betriebsart	MOSTRAR MODO	Настройка инд.режима	IMPOSTAZIONE MODO DISPLAY	转换表示	AFFICHAGE SOUS MENU	表示切替
Temperature display °C/°F setting	TEMP MODE °C/°F	Wechsel °C/°F	TEMP.GRADOS °C/°F	Един.темпер. °C/°F	TEMPERATURA °C/°F	温度 °C/°F	TEMPERATURE °C/°F	温度 °C/°F
Room air temperature display setting	ROOM TEMP DISP SELECT	Raum temp gewählt	MOSTRAR TEMP.	Показывать темп.в комн.	TEMPERATURA AMBIENTE	吸入温度	TEMPERATURE AMBIANTE	ｽｲｺﾐｵﾝﾄﾞ ﾋｮｳｼﾞ
Automatic cooling/heating display setting	AUTO MODE DISP C/H	Auto Betrieb C/H	MOSTRAR F/C EN AUTO	Инд. T/X в режиме авто	AUTO C/H	自动表示	AFFICHAGE AUTO F/C	自動ﾚｲﾀﾞﾝﾋｮｳｼﾞ

9. Emergency Operation for Wireless Remote-controller

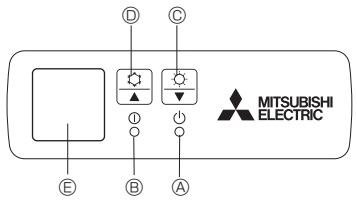


Fig. 9-1

(For PKA-A·HA / PKA-A·HAL)

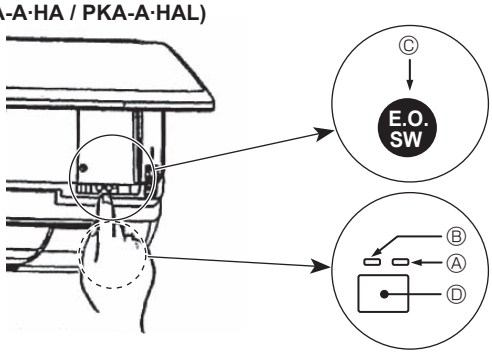


Fig. 9-2

When the remote controller cannot be used
When the batteries of the remote controller run out or the remote controller malfunctions, the emergency operation can be done using the emergency buttons.

[Fig.9-1] Ⓐ DEFROST/STAND BY lamp
Ⓑ Operation lamp
Ⓒ Emergency operation switch (heating)
Ⓓ Emergency operation switch (cooling)
Ⓔ Receiver

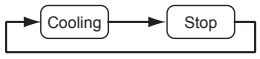
Starting operation
- To operate the cooling mode, press the ☼ button Ⓓ for more than 2 seconds.
- To operate the heating mode, press the ☼ button Ⓒ for more than 2 seconds.

Stopping operation
- To stop operation, press the ☼ button Ⓓ or the ☼ button Ⓒ for more than 2 seconds.

[Fig.9-2] Ⓐ DEFROST/STAND BY lamp (Orange)
Ⓑ Operation lamp (Green)
Ⓒ Emergency operation switch (cooling/heating)
Ⓓ Receiver
- Each press of the emergency operation switch will toggle the operation mode.
- Check "COOL/HEAT" with the operation monitor display. (The orange lamp Ⓐ follows this monitor display for 5 seconds after pressing the emergency operation switch.)

[Heat pump type]

[Cooling only type]



Operation Monitor Display

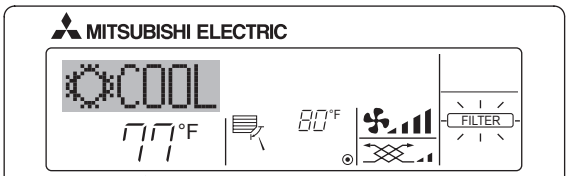
	GREEN	ORANGE	
STOP	○	○	The orange lamp follows the switch operation as indicated at the left for 5 seconds, and then it will return to the normal display.
COOL	●	○	
HEAT	●	●	

○: Turning off ●: Lighting

Note:
- **Details of emergency mode are as shown below.**

Operation mode	COOL	HEAT
Set temperature	24°C, 75°F	24°C, 75°F
Fan speed	High	High
Airflow direction	Horizontal	Downward 4 (5)

10. Care and Cleaning



■ Indicates that the filter needs cleaning.
Ask authorized people to clean the filter.
■ When resetting "FILTER" display
When the [FILTER] button is pressed 2 times successively after cleaning the filter, the display goes off and is reset.

Note:
- **When 2 or more different types of indoor unit are controlled, the cleaning period differs with the type of filter. When the master unit cleaning period arrives, "FILTER" is displayed. When the filter display goes off, the cumulative time is reset.**
- **"FILTER" indicates the cleaning period when the air conditioner was used under general indoor air conditions by criteria time. Since the degree of dirtiness depends on the environmental conditions, clean the filter accordingly.**
- **The filter cleaning period cumulative time differs with the model.**
- **This indication is not available for wireless remote controller.**

11. Trouble Shooting

Having trouble?	Here is the solution. (Unit is operating normally.)
Air conditioner does not heat or cool well.	■ Clean the filter. (Airflow is reduced when the filter is dirty or clogged.) ■ Check the temperature adjustment and adjust the set temperature. ■ Make sure that there is plenty of space around the outdoor unit. Is the indoor unit air intake or outlet blocked? ■ Has a door or window been left open?
When heating operation starts, warm air does not blow from the indoor unit soon.	■ Warm air does not blow until the indoor unit has sufficiently warmed up.
During heating mode, the air conditioner stops before the set room temperature is reached.	■ When the outdoor temperature is low and the humidity is high, frost may form on the outdoor unit. If this occurs, the outdoor unit performs a defrosting operation. Normal operation should begin after approximately 10 minutes.

11. Trouble Shooting

<table>
<tr><th>Having trouble?</th><th>Here is the solution. (Unit is operating normally.)</th></tr>
<tr><td>Airflow direction changes during operation or airflow direction cannot be set.</td><td>■ During cooling mode, the vanes automatically move to the horizontal (down) position after 1 hour when the down (horizontal) airflow direction is selected. This is to prevent water from forming and dripping from the vanes.
■ During heating mode, the vanes automatically move to the horizontal airflow direction when the airflow temperature is low or during defrosting mode.</td></tr>
<tr><td>When the airflow direction is changed, the vanes always move up and down past the set position before finally stopping at the position.</td><td>■ When the airflow direction is changed, the vanes move to the set position after detecting the base position.</td></tr>
<tr><td>A flowing water sound or occasional hissing sound is heard.</td><td>■ These sounds can be heard when refrigerant is flowing in the air conditioner or when the refrigerant flow is changing.</td></tr>
<tr><td>A cracking or creaking sound is heard.</td><td>■ These sounds can be heard when parts rub against each due to expansion and contraction from temperature changes.</td></tr>
<tr><td>The room has an unpleasant odor.</td><td>■ The indoor unit draws in air that contains gases produced from the walls, carpeting, and furniture as well as odors trapped in clothing, and then blows this air back into the room.</td></tr>
<tr><td>A white mist or vapor is emitted from the indoor unit.</td><td>■ If the indoor temperature and the humidity are high, this condition may occur when operation starts.
■ During defrosting mode, cool airflow may blow down and appear like a mist.</td></tr>
<tr><td>Water or vapor is emitted from the outdoor unit.</td><td>■ During cooling mode, water may form and drip from the cool pipes and joints.
■ During heating mode, water may form and drip from the heat exchanger.
■ During defrosting mode, water on the heat exchanger evaporates and water vapor may be emitted.</td></tr>
<tr><td>The operation indicator does not appear in the remote controller display.</td><td>■ Turn on the power switch. “◉” will appear in the remote controller display.</td></tr>
<tr><td>“” appears in the remote controller display.</td><td>■ During central control, “” appears in the remote controller display and air conditioner operation cannot be started or stopped using the remote controller.</td></tr>
<tr><td>When restarting the air conditioner soon after stopping it, it does not operate even though the ON/OFF button is pressed.</td><td>■ Wait approximately three minutes.
(Operation has stopped to protect the air conditioner.)</td></tr>
<tr><td>Air conditioner operates without the ON/OFF button being pressed.</td><td>■ Is the on timer set?
Press the ON/OFF button to stop operation.
■ Is the air conditioner connected to a central remote controller?
Consult the concerned people who control the air conditioner.
■ Does “” appear in the remote controller display?
Consult the concerned people who control the air conditioner.
■ Has the auto recovery feature from power failures been set?
Press the ON/OFF button to stop operation.</td></tr>
<tr><td>Air conditioner stops without the ON/OFF button being pressed.</td><td>■ Is the off timer set?
Press the ON/OFF button to restart operation.
■ Is the air conditioner connected to a central remote controller?
Consult the concerned people who control the air conditioner.
■ Does “” appear in the remote controller display?
Consult the concerned people who control the air conditioner.</td></tr>
<tr><td>Remote controller timer operation cannot be set.</td><td>■ Are timer settings invalid?
If the timer can be set, (WEEKLY), (SIMPLE), or (AUTO OFF) appears in the remote controller display.</td></tr>
<tr><td>“PLEASE WAIT” appears in the remote controller display.</td><td>■ The initial settings are being performed. Wait approximately 3 minutes.</td></tr>
<tr><td>An error code appears in the remote controller display.</td><td>■ The protection devices have operated to protect the air conditioner.
■ Do not attempt to repair this equipment by yourself.
Turn off the power switch immediately and consult your dealer. Be sure to provide the dealer with the model name and information that appeared in the remote controller display.</td></tr>
<tr><td>Draining water or motor rotation sound is heard.</td><td>■ When cooling operation stops, the drain pump operates and then stops. Wait approximately 3 minutes.</td></tr>
<tr><td>Noise is louder than specifications.</td><td>■ The indoor operation sound level is affected by the acoustics of the particular room as shown in the following table and will be higher than the noise specification, which was measured in an echo-free room.
<table>
<tr><td></td><td>High sound-absorbing rooms</td><td>Normal rooms</td><td>Low sound-absorbing rooms</td></tr>
<tr><td>Location examples</td><td>Broadcasting studio, music room, etc.</td><td>Reception room, hotel lobby, etc.</td><td>Office, hotel room</td></tr>
<tr><td>Noise levels</td><td>3 to 7 dB</td><td>6 to 10 dB</td><td>9 to 13 dB</td></tr>
</table></td></tr>
<tr><td>Nothing appears in the wireless remote controller display, the display is faint, or signals are not received by the indoor unit unless the remote controller is close.</td><td>■ The batteries are low.
Replace the batteries and press the Reset button.
■ If nothing appears even after the batteries are replaced, make sure that the batteries are installed in the correct directions (+, –).</td></tr>
<tr><td>The operation lamp near the receiver for the wireless remote controller on the indoor unit is blinking.</td><td>■ The self diagnosis function has operated to protect the air conditioner.
■ Do not attempt to repair this equipment by yourself.
Turn off the power switch immediately and consult your dealer. Be sure to provide the dealer with the model name.</td></tr>
</table>

12. Specifications

Model		PKA-A12HA	PKA-A18HA
Power source (Phase, Voltage <V>, Frequency <Hz>)		Single 208/230, 60	
Fan motor	<FLA>	0.33	
MCA	<A>	1	1
MOCP	<A>	15	15
Dimension (Height)	<inch>	11-5/8	
Dimension (Width)	<inch>	35-3/8	
Dimension (Depth)	<inch>	9-13/16	
Airflow (Low-Middle-High)	DRY <CFM>	320-370-425	
	WET <CFM>	290-335-380	
Noise level (Low-Middle-High)	<dB>	36-40-43	
Net weight	<lbs>	29	

Model		PKA-A12HAL	PKA-A18HAL
Power source (Phase, Voltage <V>, Frequency <Hz>)		Single 208/230, 60	
Fan motor	<FLA>	0.33	
MCA	<A>	1	1
MOCP	<A>	15	15
Dimension (Height)	<inch>	11-5/8	
Dimension (Width)	<inch>	35-3/8	
Dimension (Depth)	<inch>	9-13/16	
Airflow (Low-Middle-High)	DRY <CFM>	320-370-425	
	WET <CFM>	290-335-380	
Noise level (Low-Middle-High)	<dB>	36-40-43	
Net weight	<lbs>	29	

Model		PCA-A24KA	PCA-A30KA	PCA-A36KA	PCA-A42KA
Power source (Phase, Voltage <V>, Frequency <Hz>)		Single 208/230, 60			
Fan motor	<FLA>	0.49	0.54	0.83	0.97
MCA	<A>	1	1	2	2
MOCP	<A>	15	15	15	15
Dimension (Height)	<inch>	9-1/6			
Dimension (Width)	<inch>	50-3/8		63	
Dimension (Depth)	<inch>	26-3/4			
Airflow (Low-Middle2-Middle1-High)	DRY <CFM>	530-565-600-670	565-600-635-705	775-850-920-990	810-885-955-1025
	WET <CFM>	495-530-565-635	530-565-600-670	705-775-850-920	740-810-885-955
Noise level (Low-Middle2-Middle1-High)	<dB>	33-35-37-40	35-37-39-41	37-39-41-43	39-41-43-45
Net weight	<lbs>	71		79	84

This product is designed and intended for use in the residential, commercial and light-industrial environment.

Please be sure to put the contact address/telephone number on this manual before handing it to the customer.

MITSUBISHI ELECTRIC CORPORATION
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